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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/561,039	02/21/2007	Yuji Yasui	108419-00076	3970
	4372 7590 05/02/2008  ARENT FOX LLP  EXAMINE			
	CTICUT AVENUE, N.	W.	HOANG, JOHNNY H	
SUITE 400 WASHINGTON, DC 20036			ART UNIT	PAPER NUMBER
			3747	
			NOTIFICATION DATE	DELIVERY MODE
			05/02/2008	ELECTRONIC

## Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

DCIPDocket@arentfox.com IPMatters@arentfox.com Patent\_Mail@arentfox.com

	Application No.	Applicant(s)				
Office Action Comments	10/561,039	YASUI ET AL.				
Office Action Summary	Examiner	Art Unit				
	JOHNNY H. HOANG	3747				
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence ad	dress			
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA  - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period w  - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	TE OF THIS COMMUNICATION 6(a). In no event, however, may a reply be tim ill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONEI	J. nely filed the mailing date of this co O (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on 21 Fe	hruary 2007					
	action is non-final.					
<i>,</i> —	· <del></del>					
	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
closed in accordance with the practice under E.	A parte Quayre, 1000 C.D. 11, 10	.0 0.0. 210.				
Disposition of Claims						
4)⊠ Claim(s) <u>1-19</u> is/are pending in the application.						
4a) Of the above claim(s) is/are withdrawn from consideration.						
5)⊠ Claim(s) <u>1-19</u> is/are allowed.						
6) Claim(s) is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/or	election requirement.					
,	•					
Application Papers						
9)⊠ The specification is objected to by the Examiner.						
10)⊠ The drawing(s) filed on <u>16 December 2005</u> is/are: a)⊠ accepted or b)⊡ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. § 119						
		(-1) - · · (£)				
12) Acknowledgment is made of a claim for foreign	priority under 35 U.S.C. § 119(a)	-(a) or (t).				
a)⊠ All b)□ Some * c)□ None of:	harring the same and the district of					
1. Certified copies of the priority documents						
	2. Certified copies of the priority documents have been received in Application No					
3. Copies of the certified copies of the prior	•	ed in this National	Stage			
	application from the International Bureau (PCT Rule 17.2(a)).					
* See the attached detailed Office action for a list of the certified copies not received.						
Attachment(s)						
1) Notice of References Cited (PTO-892)  4) Interview Summary (PTO-413)						
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) Paper No(s)/Mail Date						
3) ☑ Information Disclosure Statement(s) (PTO/SB/08) 5) ☑ Notice of Informal Patent Application Paper No(s)/Mail Date 12/16/05, 02/21/07,10/09/07. 6) ☑ Other:						
Paper No(s)/Mail Date <u>12/16/05, 02/21/07,10/09/07</u> . 6)  Other:						

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## **DETAILED ACTION**

## Inventorship

1. This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

2.

## Specification

3. Applicant is reminded of the proper language and format for an abstract of the disclosure.

The abstract should be in narrative form and generally limited to a single paragraph on a separate sheet within the range of 50 to 150 words. It is important that the abstract not exceed 150 words in length since the space provided for the abstract on the computer tape used by the printer is limited. The form and legal phraseology often used in patent claims, such as "means" and "said," should be avoided. The abstract should describe the disclosure sufficiently to assist readers in deciding whether there is a need for consulting the full patent text for details.

The language should be clear and concise and should not repeat information given in the title. It should avoid using phrases which can be implied, such as, "The disclosure concerns," "The disclosure defined by this invention," "The disclosure describes," etc.

4. The abstract of the disclosure is objected to because the abstract is more than 150 words. Correction is required. See MPEP § 608.01(b).

5.

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command value.

Allowable Subject Matter

4. Claims 1-19 are allowed.

5. The drawings filed on December 16, 2005 are acceptable.

Reasons for Allowance

6. The following is an examiner's statement of reasons for allowance:

The prior art fails to disclose or render obvious the claimed combination including estimated intake air amount-calculating means for calculating an estimated intake air amount as an estimated value of the amount of intake air drawn into the cylinder; target intake air amount-setting means for setting a target intake air amount as a target to which the intake air amount is to be controlled; identification means for identifying, based on a controlled object model to which a control command value for controlling the variable intake valve timing device is inputted and from which the estimated intake air amount is outputted; all model parameters of the controlled object model, with a predetermined identification algorithm; control command value-calculating means for calculating the control command value based on the identified all model parameters such that the estimated intake air mount converges to the target intake air amount; and control means for controlling the variable intake valve timing device according to the calculated control

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the

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issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons

for Allowance."

**Conclusion** 

7. The prior art made of record and not relied upon is considered pertinent to applicant's

disclosure. These references have been cited as art of interest to show the intake air amount

control system. The copies of U.S Patent are not provided.

8. Any inquiry concerning this communication or earlier communications from the examiner

should be directed to JOHNNY H. HOANG whose telephone number is (571)272-4843.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Stephen K. Cronin can be reached on (571) 272-4536. The fax phone number for

the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <a href="http://pair-direct.uspto.gov">http://pair-direct.uspto.gov</a>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the

automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

JHH April 23, 2008 Johnny H. Hoang Examiner Art Unit 3747

/ Willis R. Wolfe, Jr. / Willis R. Wolfe, Jr. Primary Examiner Art Unit 3747